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### 1 [Optimistic replication](#)



Yasushi Saito, Marc Shapiro

March 2005 ACM Computing Surveys (CSUR), Volume 37 Issue 1

**Publisher:** ACM

Full text available: Pdf (656.72  
KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 62, Downloads (12 Months): 754, Citation Count: 12

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work ...

**Keyw ords:** Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

## 2 Dynamic XML documents with distribution and replication



Serge Abiteboul, Angela Bonifati, Grégory Cobéna, Ioana Manolescu, Tova Milo  
June SI GMOD '03: Proceedings of the 2003 ACM SIGMOD international conference  
2003 on Management of data

**Publisher:** ACM

Full text available: Pdf (209.06  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 100, Citation Count: 31

The advent of XML as a universal exchange format, and of Web services as a basis for distributed computing, has fostered the apparition of a new class of documents: *dynamic XML documents*. These are XML documents where some data is given explicitly ...

## 3 Transaction-centric reconciliation in disconnected client-server databases

October 2004 Mobile Networks and Applications, Volume 9 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available: Pdf (205.54  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 114, Citation Count: 2

As mobile computing devices become more and more common, mobile databases are becoming popular. An important feature of these database systems is their ability to allow optimistic replication of data by providing disconnected mobile devices the ability ...

**Keywords:** databases, disconnected operation, reconciliation, serializability testing

## 4 ATLAS: a scalable network framework for distributed virtual environments



Dongman Lee, Mingyu Lim, Seunghyun Han  
September CVE '02: Proceedings of the 4th international conference on Collaborative  
2002 virtual environments

**Publisher:** ACM

Full text available: Pdf (129.14  
KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 59, Citation Count: 9


A distributed virtual environment (DVE) is a software system that allows users on a network to interact with each other by sharing a common view of their states. As users are geographically distributed over large networks like the Internet and the number ...

**Keywords:** DVE, network framework, scalability

## 5 [Roam: a scalable replication system for mobility](#)

October 2004 Mobile Networks and Applications, Volume 9 Issue 5

**Publisher:** Kluwer Academic Publishers

Full text available:  Pdf (152.02 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 55, Citation Count: 2

Nomadic users require replication to store copies of critical data on their mobile machines while disconnected or poorly connected. Existing replication services do not provide all classes of mobile users with the capabilities they require, which include: ...

**Keyw ords:** optimistic replication, peer file systems, scalable replication


## 6 [Distributed profiling in a partitioned ambient network](#)



Volker Bruns, Simon Reymann, Artur Lugmayr

December 2007 MUM '07: Proceedings of the 6th international conference on Mobile and ubiquitous multimedia

**Publisher:** ACM

Full text available:  Pdf (793.58 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 9, Downloads (12 Months): 98, Citation Count: 0

We elaborate a model for distributed profiling and profile sharing in a decentralized network. The proposed solution achieves the goal of supplying devices from the user's environment with personal content, enabling them to offer personalized services. ...


**Keyw ords:** personalization, synchronization, user profiling

## 7 [A Novel Middleware Based Web Database Model](#)

Shui Yu, Wanlei Zhou

September 2004 WI '04: Proceedings of the 2004 IEEE/WIC/ACM International Conference on Web Intelligence

**Publisher:** IEEE Computer Society

Full text available:  Pdf (125.11 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 33, Citation Count: 0

In this paper, we propose a novel model for web-based database systems based on the multicast and anycast' protocols. In the model, we design a middleware, castway, which locates between the database server and the Web server. Every castway in a distributed ...

## 8 [Concurrency control: methods, performance, and analysis](#)



Alexander Thomasian

March 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 1

**Publisher:** ACM

Full text available: [Pdf](#) (427.18 KB)

**Additional Information:** [full citation](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 44, Downloads (12 Months): 403, Citation Count: 15

**Keyw ords:** Markov chains, adaptive methods, concurrency control, data contention, deadlocks, flow diagrams, load control, optimistic concurrency control, queueing network models, restart-oriented locking methods, serializability, thrashing, two-phase locking, two-phase processing, wait depth limited methods

## 9 [Replication for web hosting systems](#)



Swaminathan Sivasubramanian, Michal Szymaniak, Guillaume Pierre, Maarten van Steen  
September 2004 ACM Computing Surveys (CSUR), Volume 36 Issue 3

**Publisher:** ACM

Full text available: [Pdf](#) (374.99 KB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 36, Downloads (12 Months): 373, Citation Count: 7

Replication is a well-known technique to improve the accessibility of Web sites. It generally offers reduced client latencies and increases a site's availability. However, applying replication techniques is not trivial, and various Content Delivery Networks ...

**Keyw ords:** Web replication, content delivery networks

## 10 [The STAMPede approach to thread-level speculation](#)



J. Gregory Steffan, Christopher Colohan, Antonia Zhai, Todd C. Mowry

August 2005 ACM Transactions on Computer Systems (TOCS), Volume 23 Issue 3

**Publisher:** ACM

Full text available: [Pdf](#) (1.72 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 38, Downloads (12 Months): 203, Citation Count: 7

Multithreaded processor architectures are becoming increasingly commonplace: many current and upcoming designs support chip multiprocessing, simultaneous multithreading, or both. While it is relatively straightforward to use these architectures to improve ...

**Keyw ords:** Thread-level speculation, automatic parallelization, cache coherence, chip-multiprocessing

## 11 Exploiting perception in high-fidelity virtual environments



### Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez  
July SIGGRAPH '06: ACM SIGGRAPH 2006 Courses  
2006

**Publisher:** ACM

**Additional Information:** [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Full text available: [Mov](#) (68:6 MIN), [Pdf](#) (5.07 MB)

**Bibliometrics:** Downloads (6 Weeks): 199, Downloads (12 Months): 1547, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

**Keyw ords:** collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

## 12 Modern approaches to augmented reality



### Video files associated with this course are available from the citation page

Oliver Bimber, Ramesh Raskar  
August SIGGRAPH '07: ACM SIGGRAPH 2007 courses  
2007

**Publisher:** ACM

Full text available: [Pdf](#) (46.17 MB) **Additional Information:** [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 118, Downloads (12 Months): 1413, Citation Count: 0


This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

### 13 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

**Publisher:** IBM Press

Full text available:  Pdf (4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 46, Downloads (12 Months): 619, Citation Count: 0



Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

### 14 [Communications of the ACM: Volume 51 Issue 9](#)



September 2008 issue Volume 51 Issue 9

**Publisher:** ACM

Full text available:  Digital Edition ,  Pdf (8.68 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 13658, Downloads (12 Months): 13658, Citation Count: 0

### 15 [Proceedings of the 2008 ACM symposium on Applied computing](#)



Roger L. Wainwright, Hisham M. Haddad  
March 2008

proceeding

**Publisher:** ACM

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Citation Count: 0

Welcome to the 23rd Annual ACM Symposium on Applied Computing (SAC 2008). This international event is dedicated to computer scientists, engineers, and practitioners seeking innovative ideas in various areas of computer applications. This year, the conference ...

## 16 Transparent adaptation of single-user applications for multi-user real-time



### collaboration

Chengzheng Sun, Steven Xia, David Sun, David Chen, Haifeng Shen, Wentong Cai  
December 2006 ACM Transactions on Computer-Human Interaction (TOCHI),  
Volume 13 Issue 4

**Publisher:** ACM

Full text available: Pdf (3.12 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 30, Downloads (12 Months): 385, Citation Count: 1

Single-user interactive computer applications are pervasive in our daily lives and work. Leveraging single-user applications for supporting multi-user collaboration has the potential to significantly increase the availability and improve the usability ...

**Keyw ords:** Application sharing, CoPowerPoint, CoWord, computer-supported cooperative work, operational transformation, transparent adaptation

## 17 Modern approaches to augmented reality



Oliver Bimber, Ramesh Raskar  
July 2005 SIGGRAPH '05: ACM SIGGRAPH 2005 Courses

**Publisher:** ACM

Full text available: Pdf (48.93 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 51, Downloads (12 Months): 394, Citation Count: 1

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

## 18 LH<sup>\*</sup>RS---a highly-available scalable distributed data structure



Witold Litwin, Rim Moussa, Thomas Schwarz  
September 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 3  
2005

**Publisher:** ACM

Full text available: Pdf (774.32 KB)

Additional Information: [full citation](#), [appendices and supplements](#),  
[abstract](#), [references](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 23, Downloads (12 Months): 174, Citation Count: 0

LH<sup>\*</sup>ast; RS is a high-availability scalable distributed data structure (SDDS). An LH<sup>\*</sup>ast; RS file is hash partitioned over the distributed RAM of a multicomputer, for example, a network of PCs, and supports the unavailability of any ...

**Keyw ords:** P2P, Scalable distributed data structure, grid computing, high-availability, linear hashing, physical database design

## 19 [A formal model for reasoning about adaptive QoS-enabled middleware](#)



Nalini Venkatasubramanian, Carolyn Talcott, Gul A. Agha

January 2004 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 13 Issue 1

**Publisher:** ACM

Full text available: [Pdf](#) (1.42 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 22, Downloads (12 Months): 144, Citation Count: 3

Systems that provide distributed multimedia services are subject to constant evolution; customizable middleware is required to effectively manage this change. Middleware services for resource management execute concurrently with each other, and with ...

**Keyw ords:** Middleware services, actors, meta-object models, multimedia, quality-of-service, reflection, theoretical foundations

## 20 [Modern approaches to augmented reality](#)



Oliver Bimber, Ramesh Raskar

July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

**Publisher:** ACM

Full text available: [Pdf](#) (2.45 MB)

**Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 35, Downloads (12 Months): 344, Citation Count: 0

This tutorial discusses the Spatial Augmented Reality (SAR) concept, its advantages and limitations. It will present examples of state-of-the-art display configurations, appropriate real-time rendering techniques, details about hardware and software ...

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